

FIG.1

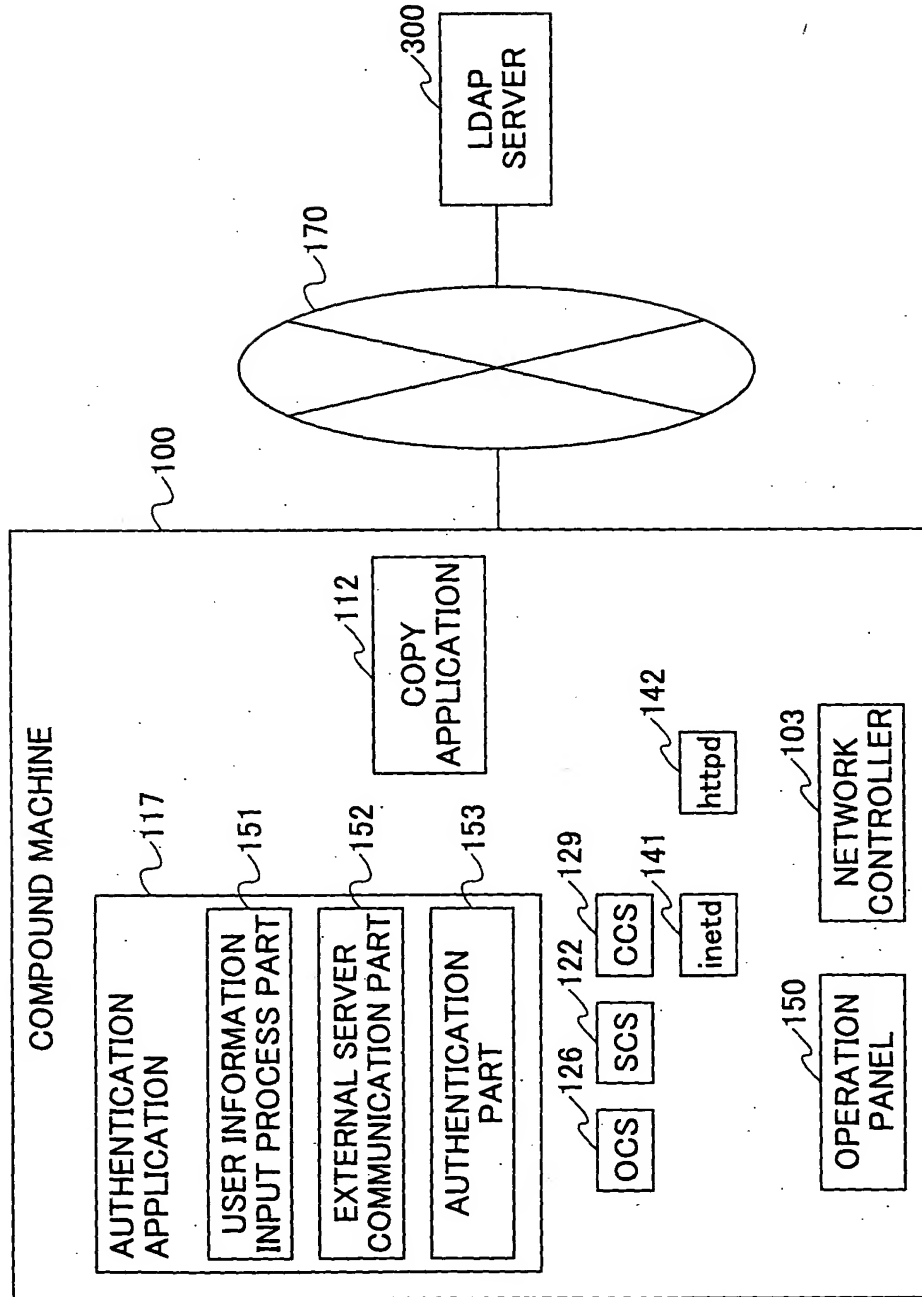


FIG.2

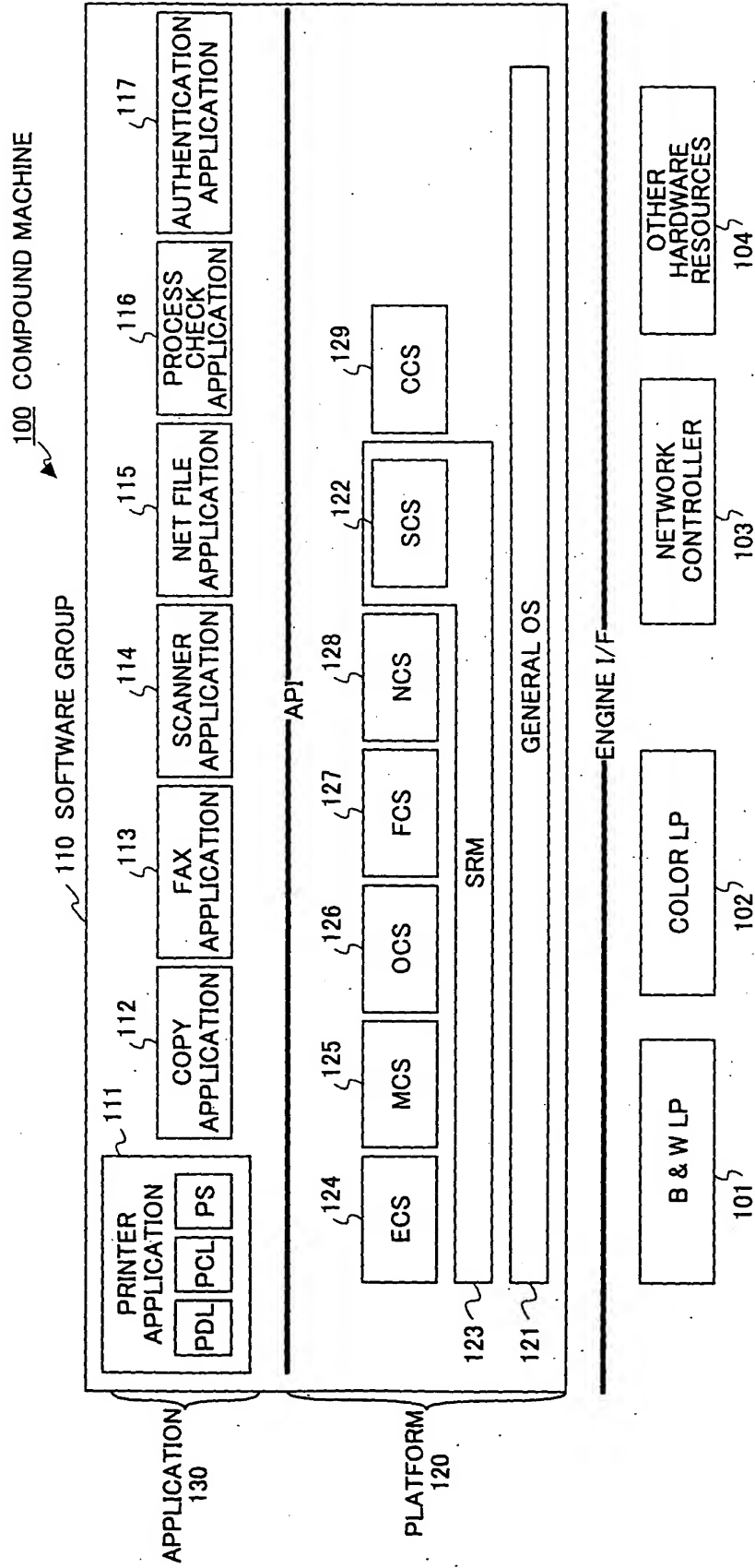


FIG.3

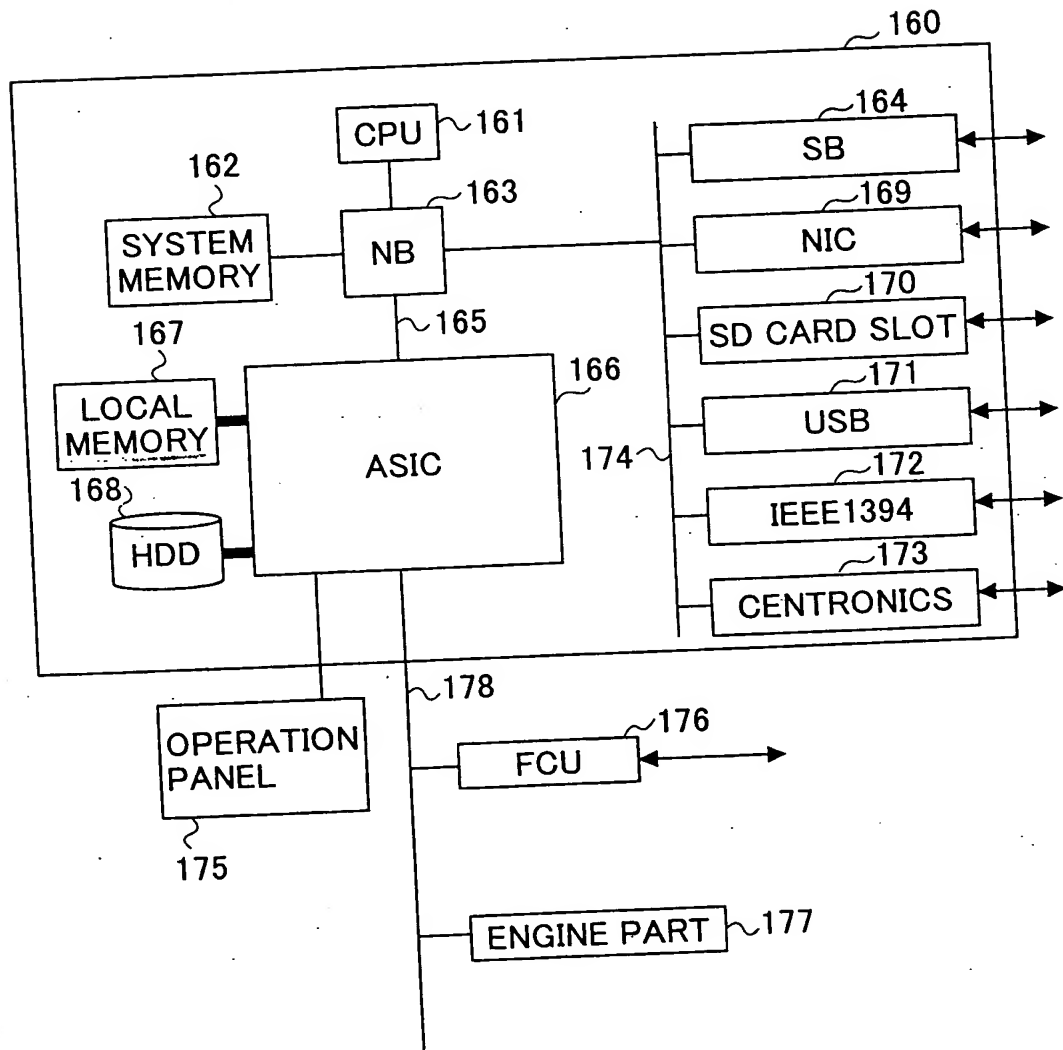


FIG.4

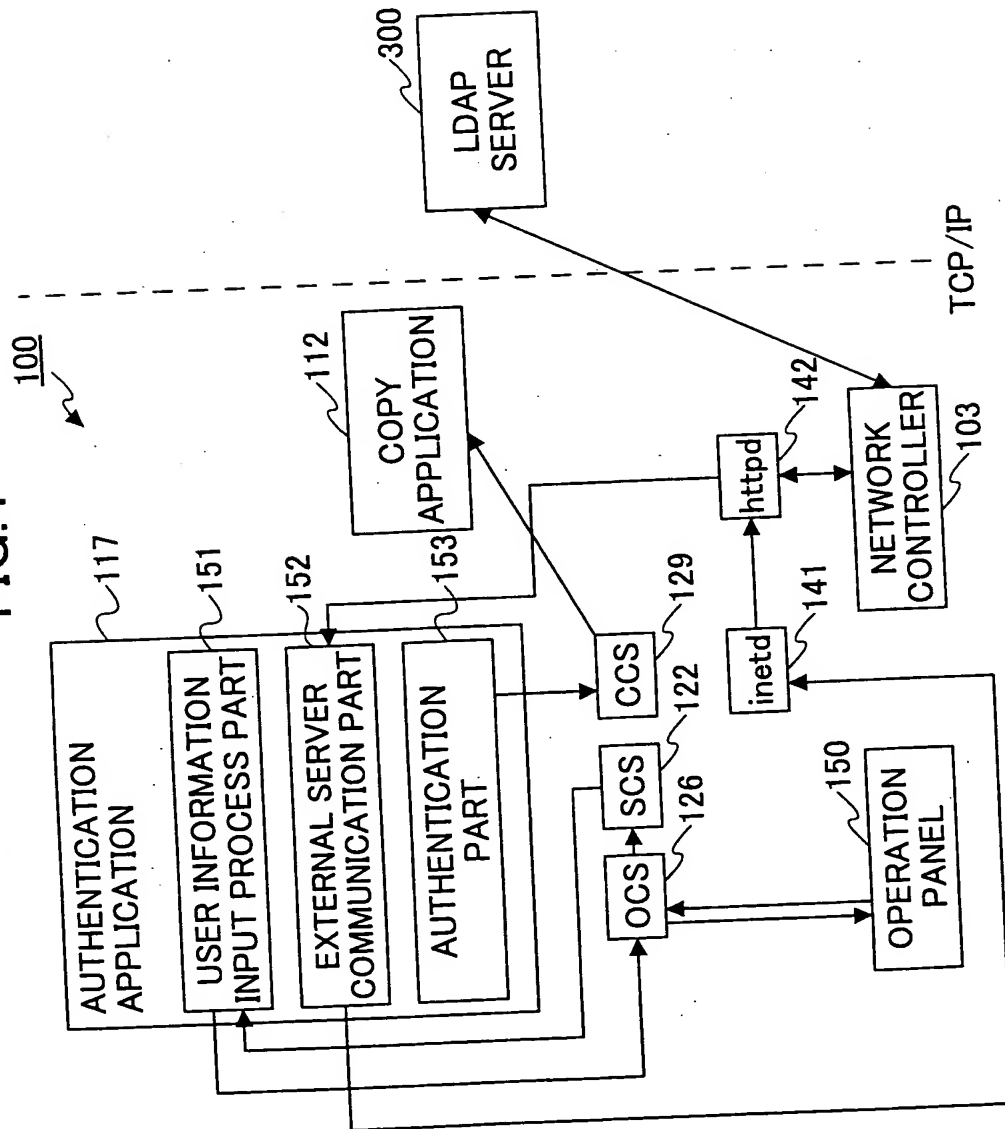


FIG.5

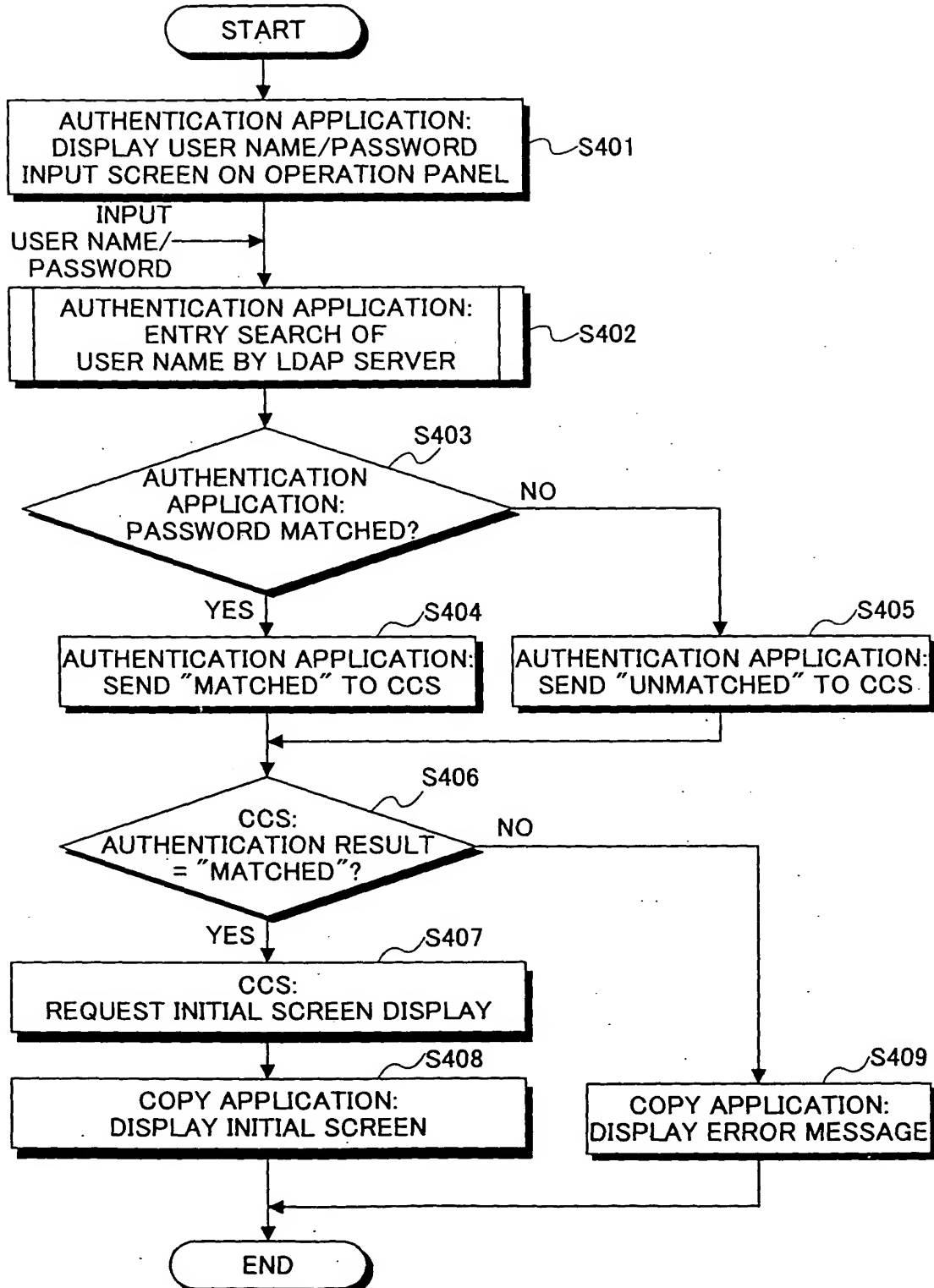


FIG.6

105a

COPY

SCANNER

FACSIMILE

USER NAME/PASSWORD INPUT

USER ID:

PASSWORD:

OK CANCEL

501

FIG.7

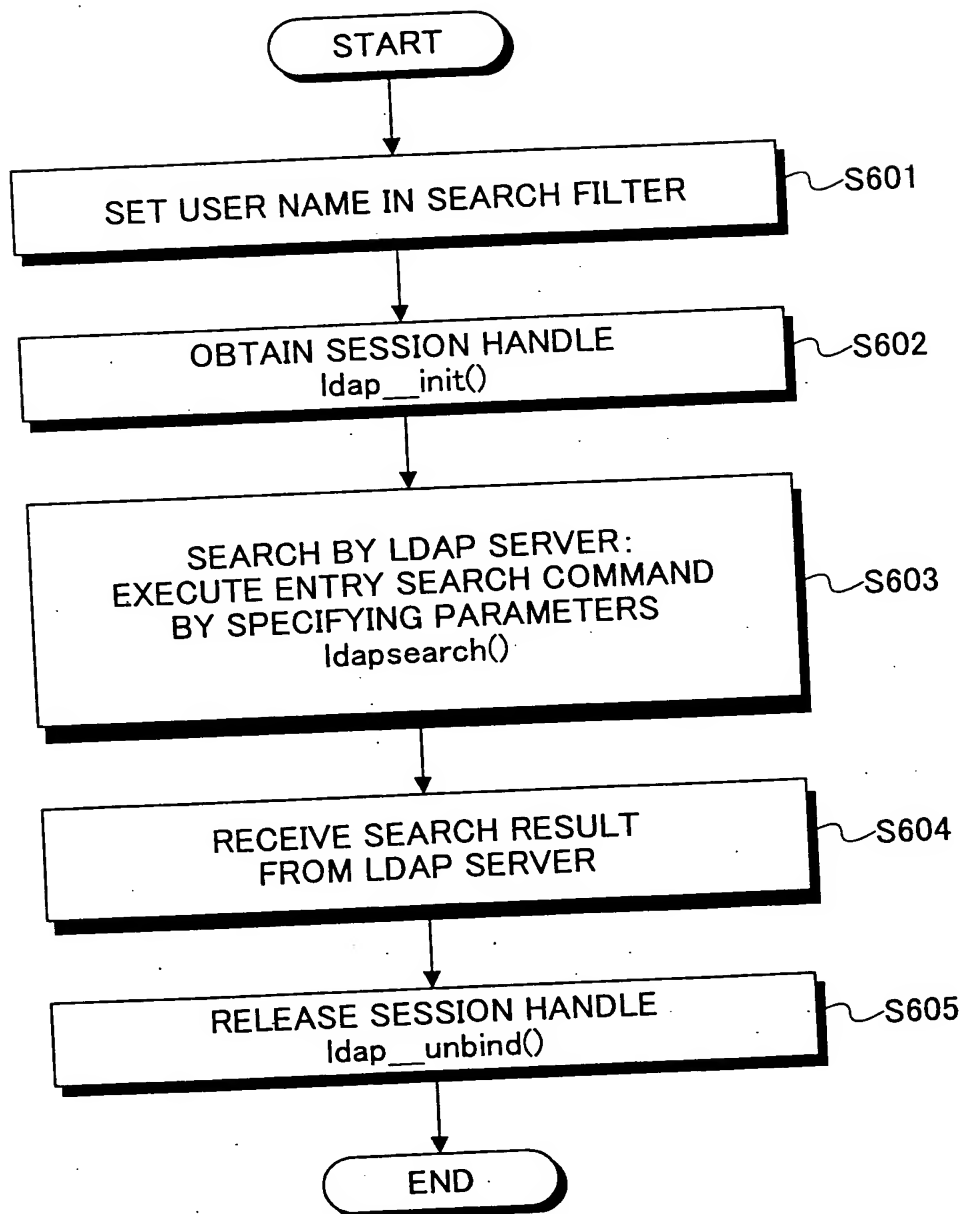


FIG.8

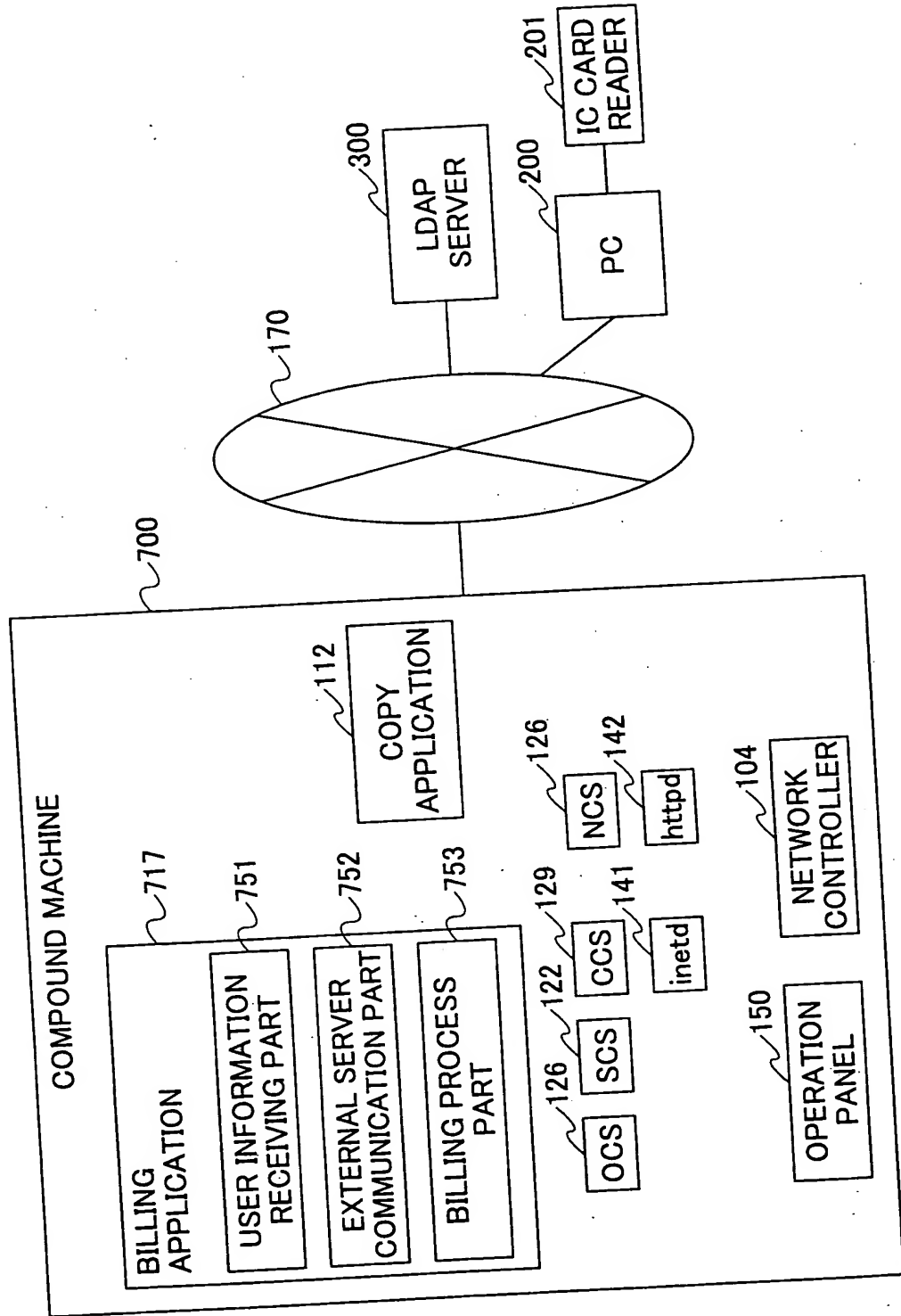


FIG.9

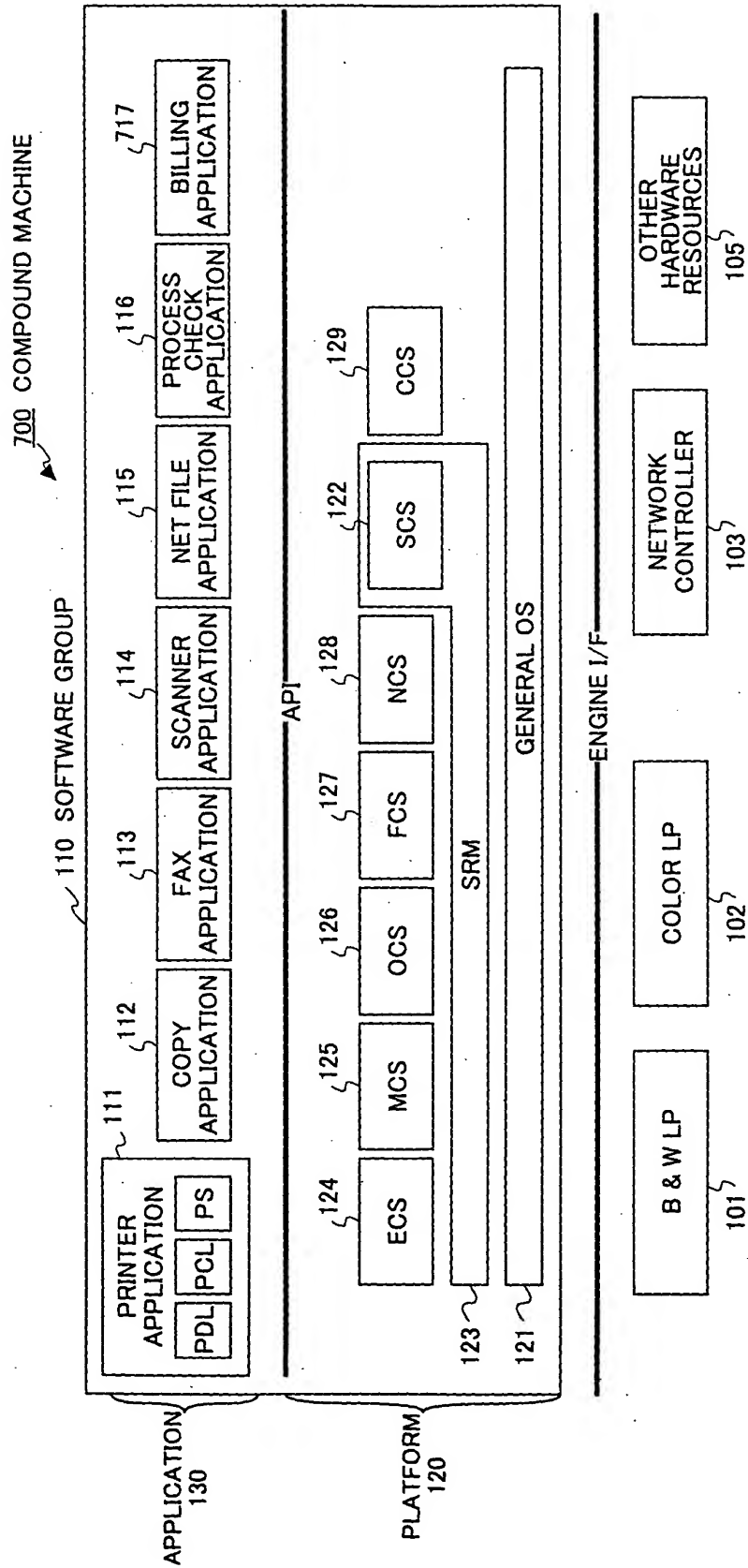


FIG.10

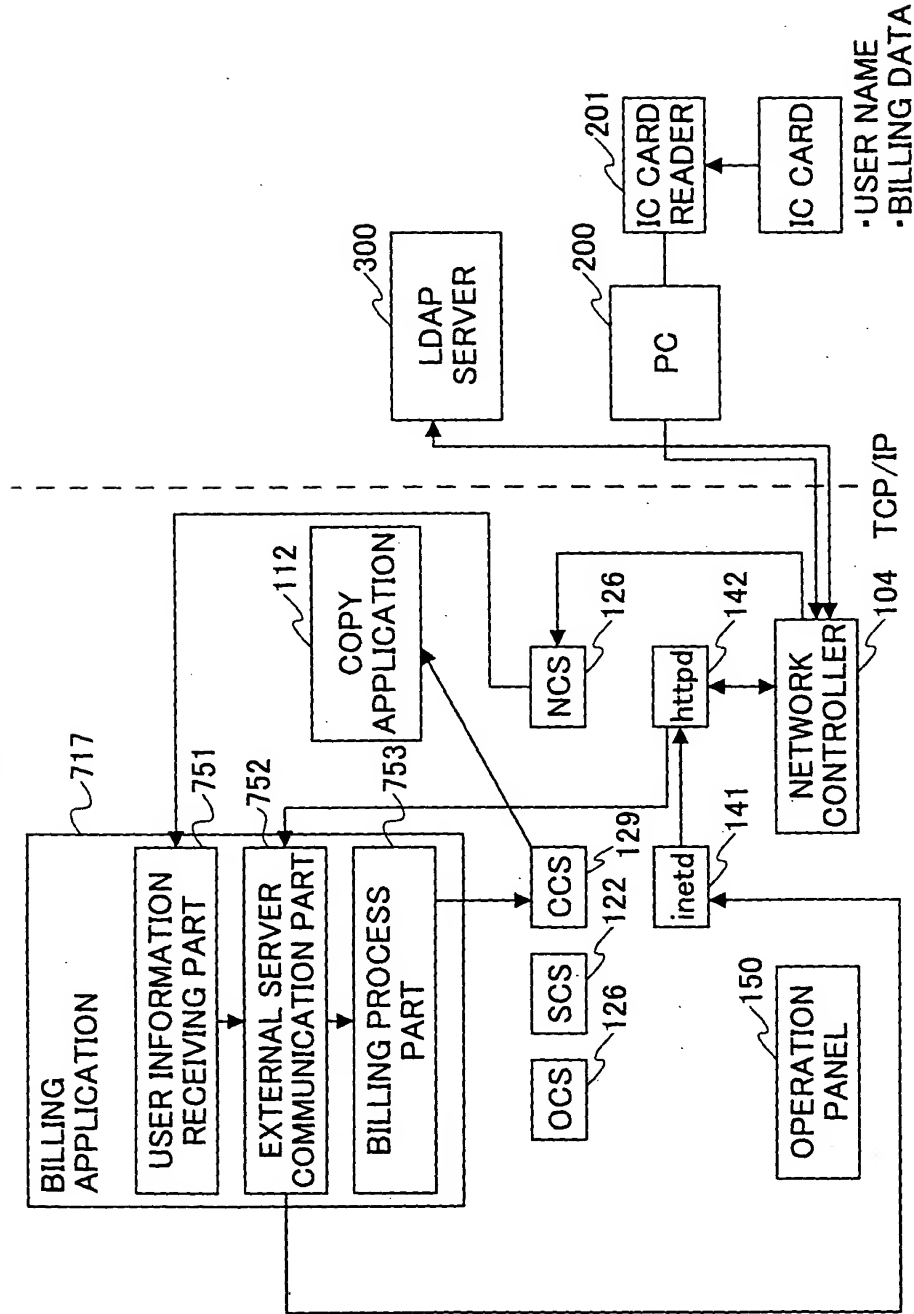


FIG.11

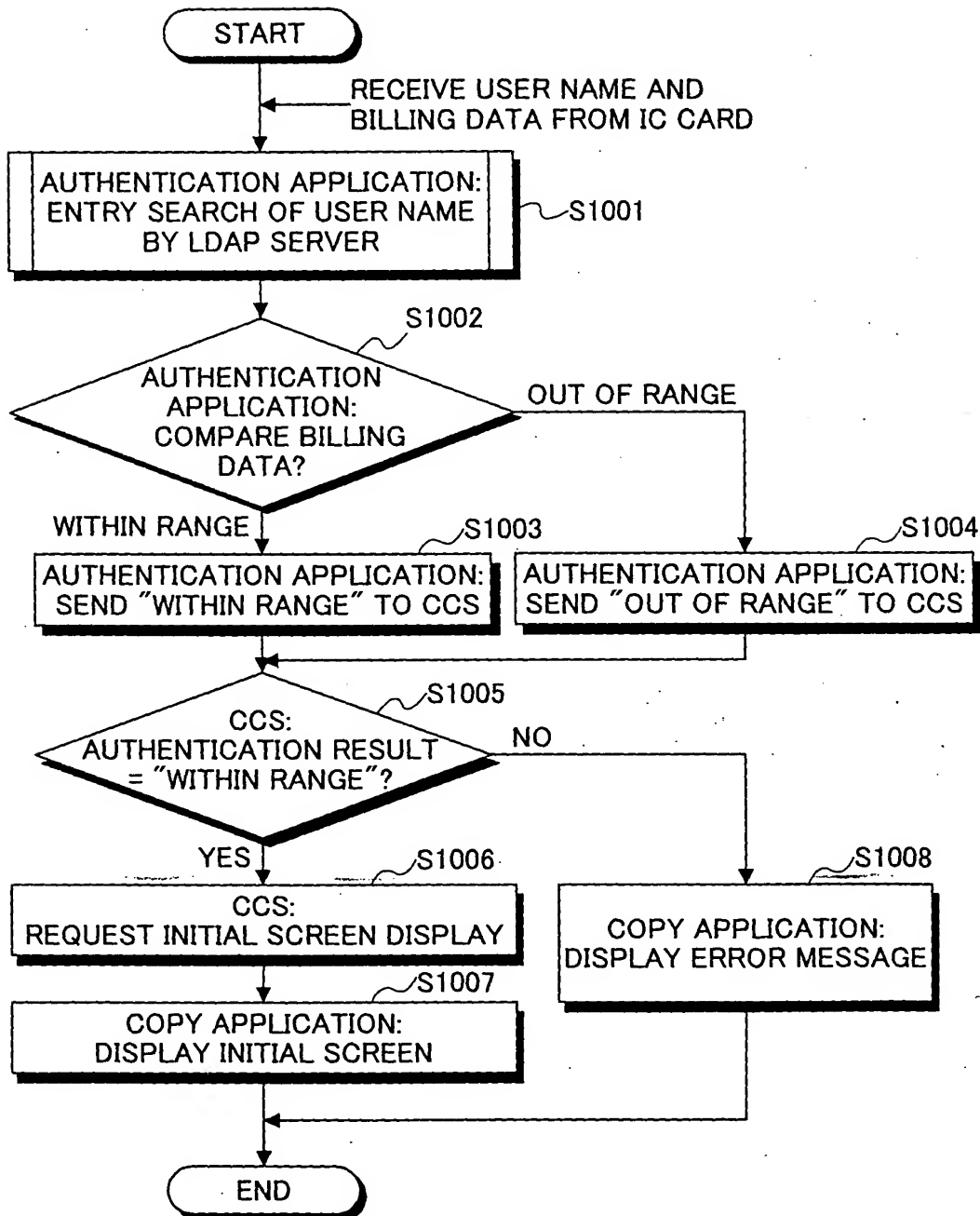


FIG.12

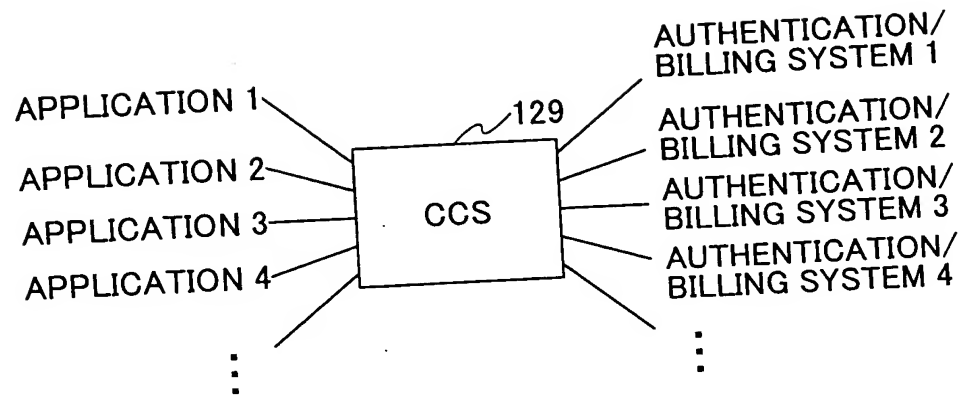


FIG.13

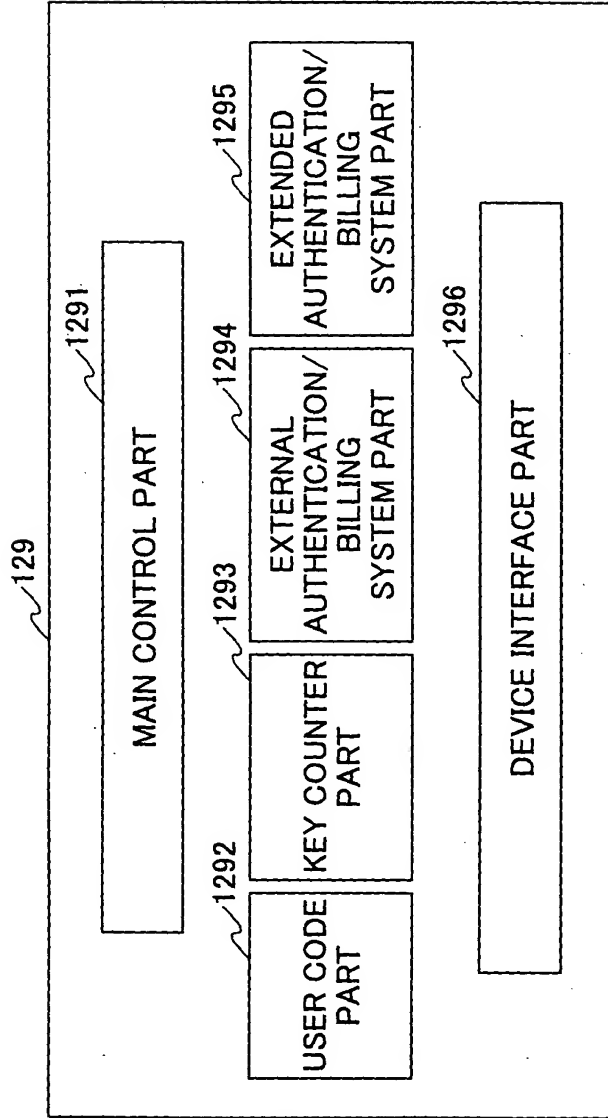


FIG.14

```
int key_data(128);
int key_count_read(){
    while (1) {
        fd=open("/dev/usb0","r");
        read (fd, buf);
        if(buf[0]!=0){
            bcopy(buf, key_data);
            send_mesg(main_thread, "call_all_apl");
        }
    }
}
```

FIG.15

USER CODE MANAGEMENT
KEY COUNTER MANAGEMENT
EXTERNAL BILLING APPARATUS MANAGEMENT
EXTENDED AUTHENTICATION/ BILLING SYSTEM 1 MANAGEMENT
<div>△BACK</div> <div>▽NEXT</div>

FIG.16

SELECT FUNCTIONS COVERED BY EXTENDED AUTHENTICATION/BILLING SYSTEM 1, PUSH SET		
COPY :	PRINTER:	OTHER FUNCTIONS:
<div>FULL COLOR</div>	<div>COLOR</div>	<div>DOCUMENT BOX</div>
<div>BLACK AND WHITE</div>	<div>BLACK AND WHITE</div>	<div>FAX</div>
<div>SINGLE COLOR</div>		<div>SCANNER</div>
<div>TWO COLORS</div>		
<div>BACK</div>	<div>NEXT</div>	<div>CANCEL</div> <div>SET</div>

FIG.17

**SELECT FUNCTIONS COVERED BY EXTENDED
AUTHENTICATION/BILLING SYSTEM 1, PUSH SET**

APPLICATION 1	APPLICATION 2	APPLICATION 3
FULL COLOR	COLOR	BLACK AND WHITE
BLACK AND WHITE	BLACK AND WHITE	
SINGLE COLOR		
TWO COLORS		

BACK
NEXT

CANCEL
SET

FIG.18

EXTENDED AUTHENTICATION/ BILLING SYSTEM 1				
	APPLICATION 1	APPLICATION 2	APPLICATION 3	...
COLOR	APPLIED	APPLIED		.
BLACK & WHITE		APPLIED		.
SINGLE COLOR		APPLIED		.
TWO COLORS		APPLIED		.

FIG.19

EXTENDED AUTHENTICATION/BILLING SYSTEM 1 SELECT ONE	
[SELECT FUNCTION OF APPLICATION FOR SETTING]	
[SELECT APPLICATION FOR SETTING]	
CANCEL	SET

FIG.20

SELECT APPLICATIONS COVERED BY EXTENDED AUTHENTICATION/BILLING SYSTEM 1, PUSH SET	
COPY	APPLICATION 1
DOCUMENT BOX	APPLICATION 2
PRINTER	APPLICATION 3
FAX	
SCANNER	
CANCEL SET	

FIG.21

	TARGET APPLICATION
AUTHENTICATION/ BILLING SYSTEM 1	COPY, APPLICATION 1
AUTHENTICATION/ BILLING SYSTEM 2	FAX
AUTHENTICATION/ BILLING SYSTEM 3	APPLICATION 2
⋮	⋮

FIG.22

SELECT APPLICATION

COPY	APPLICATION 1
DOCUMENT BOX	APPLICATION 2
PRINTER	APPLICATION 3
FAX	
SCANNER	

CANCEL SET

FIG.23

SELECT AUTHENTICATION/BILLING SYSTEM
APPLIED TO APPLICATION 1

AUTHENTICATION/ BILLING SYSTEM 1	AND OR
AUTHENTICATION/ BILLING SYSTEM 2	
AUTHENTICATION/ BILLING SYSTEM 3	
AUTHENTICATION/ BILLING SYSTEM 4	

CANCEL SET